

# **WATER AND SEDIMENT CONTROL BASIN CONSTRUCTION SPECIFICATION**

## **1. SCOPE**

The work shall consist of furnishing materials and installing all components of the water and sediment control basin, as outlined in this specification and the drawings.

## **2. MATERIALS**

EARTHFILL used in constructing the water and sediment control basin shall be obtained from the basin excavation areas, or other sources approved by the designer.

PIPE, pipe sizes, fittings and other necessary pipe material shall be as specified on the drawings or in Section 7 of this specification, when applicable.

OTHER required materials shall be as shown in the drawings or in Section 7 of this specification.

## **3. SITE ACCESS AND CLEARING**

All dead furrows, ditches, or gullies shall be filled before constructing the water and sediment control basin or shall be part of the construction. All old terraces, fence rows, hedge rows, trees, and other obstructions shall be removed, as necessary, to install a farmable system. Tree and brush removal shall be done in such a manner to prevent damage to

other trees and property, and to minimize erosion. Unless otherwise specified in Section 7, all cleared materials, including trash, shall be burned or removed from the site. Burning shall comply with all state and local applicable regulations.

## **4. GRADING**

The water and sediment control basin shall be constructed according to planned alignment, grade, and cross section with the specified overfill for settlement and the channel graded to drain reasonable well. Any ditch or depression at the bottom of the back slope shall be filled and smoothed so that drainage will be away from the embankment and not parallel to it.

Surfaces which have been over-excavated shall be brought to the planned grade by replacement with soils similar to, and at a density equal to, that of the adjacent soils. Unless otherwise set forth in Section 7, fill that is required to be imported to the site shall be similar to, and placed at a density equal to, that of the adjacent soils, except that areas to be vegetated shall receive topsoil approved by the Engineer. Excess soil material shall be disposed of as set forth in Section 7 or shown on the drawings.

The surface of the finished water and sediment control structure shall be reasonable smooth and present a workmanlike finish. If necessary, topsoil shall be stockpiled and spread over

excavations and other areas to facilitate restoration of productivity.

## **5. STRUCTURAL INSTALLATION**

Structures shall be installed as set forth in Section 7, as shown on the drawings, and in such a manner as to minimize erosion and sedimentation.

Provisions must be made to prevent piping and settlement where underground conduits are located under embankments. Backfill shall be placed in successive layers of not more than six inches, and each lift compacted before the subsequent layer wherever terraces, diversions, or other water and sediment control structures are planned.

## **6. VEGETATION**

Vegetation, if required, shall be established at the locations shown on the drawings and/or staked in the field.

## **7. ADDITIONAL CONDITIONS WHICH APPLY TO THIS PROJECT ARE:**